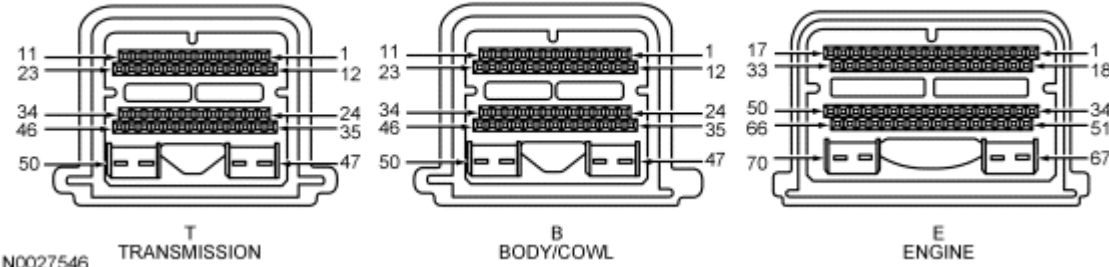


### 4.0L Mustang

170 PIN PCM HARNESS CONNECTOR



N0027546

### Typical Diagnostic Reference Values

Sensors/Inputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
FTP	B3	2.62/0.61	2.64/0.6	2.58/0.61	2.63/0.61	VOLTS/PSI
FTP_H2O	B3	0.33	0.17	-0.27	0.03	in-H <sub>2</sub> O
APP1	B5	4.07	4.07	3.67	3.61	VOLTS
BOO	B9	OFF	OFF	OFF	OFF	ON/OFF
ACCS	B15	OFF	OFF	OFF	OFF	ON/OFF
APP2	B17	1.43	1.43	1.74	1.79	VOLTS
FPM	B21	0	0	0	0	%
ACP_PRESS	B26	1.32/121.97	1.4/129.97	0.98/83.98	0.95/81.98	VOLTS/PSI
APP3	B28	0.87	0.87	1.17	1.2	VOLTS
TCS (A/T)	B29	NOT DEPRESSED	DEPRESSED (G)	NOT DEPRESSED	NOT DEPRESSED	DEPRESSED/NOT DEPRESSED
PSP	B34	LOW	LOW	LOW	LOW	HIGH/LOW
BPA	B39	OFF	OFF	OFF	OFF	ON/OFF
GENMON	E5	0	41.41	10.16	21.88	%
ECT	E18	0.44/215.6	0.45/208.4	0.59/199.4	0.58/197.6	VOLTS/DEG F
FRT	E19	2.08/107.6 (K)	2.12/107.6 (K)	3.32/64.4 (K)	3.42/60.8 (K)	VOLTS/DEG F
DPFEGR	E21	0.25-1.3	0.25-1.3	0.25-4.65	0.25-4.65	VOLTS
IAT	E22	1.98/111.2 (K)	2.97/73.4 (K)	4.03/21.2 (K)	4.04/21.2 (K)	VOLTS/DEG F
MAF	E25	0	0.77	2.39	2.2	VOLTS
O2S11	E28	0/switching (L)	0.67/switching (C)	0.13/switching (C)	0.79/switching (C)	VOLTS/RICH-LEAN
O2S21	E29	0/switching (L)	0.74/switching (C)	0.11/switching (C)	0.72/switching (C)	VOLTS/RICH-LEAN
FRP	E32	3.76/59.91	3.84/58.62	2.8/40.23	2.73/39.12	VOLTS/PSI
KNOCK 1	E49	16380	172	152	208	N/A
TP2	E60	1.26/25.0	0.72/14.51	0.81/16.08	1.34/26.67	VOLTS/%
TP1	E61	4.05/18.82	4.32/13.33	4.28/14.12	4.01/19.61	VOLTS/%
MAP	E62	4.3/99.97/14.5/	1.11/27.99/	2.74/64.94/	2.68/62.94/	VOLTS/kPa/

		29.53 (W)	4.06/8.26 (W)	9.42/19.19 (W)	9.13/18.6 (W)	PSI/inHg
OSS_SRC	T3	0	0	1256	2254	RPM
TSS (A/T)	T15	0	616.8	1253	1698	RPM
O2S12	T24	0 (L)	0.83 (D)	0.74 (D)	0.76 (D)	VOLTS
O2S22	T25	0	0.84 (D)	0.76 (D)	0.76 (D)	VOLTS
TFT (A/T)	T29	1.1/159.8 (K)	0.8/176 (K)	0.87/172.4 (K)	0.92/168.8 (K)	VOLTS/DEG F
APP	PID	0	0	13.5	15.5	%
B+	PID	12.69	13-14.5	13-14.5	13-14.5	VOLTS
BARO	PID	14.42/157	14.42/157	14.42/157	14.42/157	PSI/Hz
CPP/PNP	PID	NEUTRAL	NEUTRAL	DRIVE	DRIVE	NEUTRAL/ DRIVE
DECHOKE	PID	YES	NO	NO	NO	YES/NO
ETC_ACT	PID	7.75	0.75	10.25	4.25	DEG
ETC_DSD	PID	7.62	0.76	10.27	4.22	DEG
ETC_TRIM	PID	-0.1 (X)	-0.1 (X)	-0.07 (X)	-0.07 (X)	DEG
FCIL	PID	OFF	OFF	OFF	OFF	ON/OFF
FLI	PID	0 (H)	22.08 (H)	29.76 (H)	28.56 (H)	%
GEAR	PID	1	1	5	5	GEAR
LOAD	PID	67.77 (L)	15.2	32.66	15.57	%
MISFIRE	PID	NO	NO	NO	NO	YES/NO
MP_LRN	PID	YES	YES	NO	NO	YES/NO
O2BANK1	PID	VARIABLES	VARIABLES	VARIABLES	VARIABLES	RICH/LEAN
O2BANK2	PID	VARIABLES	VARIABLES	VARIABLES	VARIABLES	RICH/LEAN
RPM	PID	0	636	1128	1631	RPM
SYNC	PID	NO	YES	YES	YES	YES/NO
VSS	PID	0	0	48km/h (30MPH)	89km/h (55MPH)	km/h / MPH

Actuators/Outputs	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
FP	B12	75/OFF	25.5/ON	22.22/ON	19.89/ON	%/ON-OFF
WAC/ACCR	B14	OFF	OFF	OFF	OFF	ON-OFF
GENCMD	B32	3.57	0 (Q)	0 (Q)	0 (Q)	%
HFC	E4	OFF	OFF	OFF	OFF	ON/OFF
EVMV	E6	0/OFF	484/VARYING	515/ VARYING	328/ OFF	mA/OFF- VARYING
LFC	E7	OFF	OFF	OFF	OFF	ON/OFF
EGRVR	E63	0	0	51.48 (T)	0 (T)	%
HTR11	E69	OFF (O)	ON	ON	ON	ON/OFF
HTRCM11	E69	1.16	1.16	1.16	1.16	AMPS
HTR21	E70	OFF (O)	ON	ON	ON	ON/OFF
HTRCM21	E70	1.18	1.18	1.18	1.18	AMPS
TCC (A/T)	T46	0/OFF	0/OFF	0/OFF	100/ENGAGED	% / OFF-

						ENGAGED
HTR12	T47	OFF (O)	ON	ON	ON	ON/OFF
HTRCM12	T47	691	691	691	691	mA
HTR22	T48	OFF (O)	ON	ON	ON	ON/OFF
HTRCM22	T48	672	672	672	672	mA
EGR_EVAL	PID	YES	YES	YES	YES	YES/NO
EVAP020C	PID	NO	NO	NO	NO	YES/NO
EVAP020D	PID	ALLOW	ALLOW	ALLOW	ALLOW	ALLOW/ DISALLOW
EVAP020R	PID	NOT READY	NOT READY	NOT READY	NOT READY	READY/NOT READY
EVAPCV	PID	0/OFF	0/OFF	0/OFF	0/OFF	%/ON-OFF
EVAPSOAK	PID	NO	NO	NO	NO	YES/NO
EVAPSTA	PID	NOT RUNNING	NOT RUNNING	NOT RUNNING	NOT RUNNING	STATUS
EVAP_EVAL	PID	NO	NO	NO	NO	YES/NO
FUELSYS	PID	OPEN LOOP	CLOSED LOOP	CLOSED LOOP	CLOSED LOOP	OPEN/ CLOSED LOOP
LONGFT1	PID	0 (L)	(-)20 TO (+)20	(-)20 TO (+) 20	(-)20 TO (+)20	%
LONGFT2	PID	0 (L)	(-)20 TO (+)20	(-)20 TO (+) 20	(-)20 TO (+)20	%
MIL	PID	OFF	OFF	OFF	OFF	ON/OFF
PATSENABL	PID	ENABLED	ENABLED	ENABLED	ENABLED	ENABLED/ DISABLED
SHRTFT1	PID	0 (L)	(-)10 TO (+)10	(-)10 TO (+) 10	(-)10 TO (+)10	%
SHRTFT2	PID	0 (L)	(-)10 TO (+)10	(-)10 TO (+) 10	(-)10 TO (+)10	%
SPARKADV	PID	10	13.25	34	22	DEG
TCIL	PID	OFF	OFF	OFF	OFF	ON/OFF

Other	PCM Pin/PID only	Measured/PID Values				Units Measured/PID
		Ignition On Engine Off	Hot Idle	48 KM/H (30 MPH)	89 KM/H (55 MPH)	
VPWR	B35/36	12.38	13- 14.5	13-14.5	13-14.5	VOLTS
VREF	B40/E57	5	5	5	5	VOLTS

